

After installing PHP and MySQL packages it is time to create a sample database.

We will start up MySQL by typing in the command :

`Mysql -u (insert user name when you installed mariadb) -p`

It will then ask for a password which is the one you created when you went through the installation of mariadb.

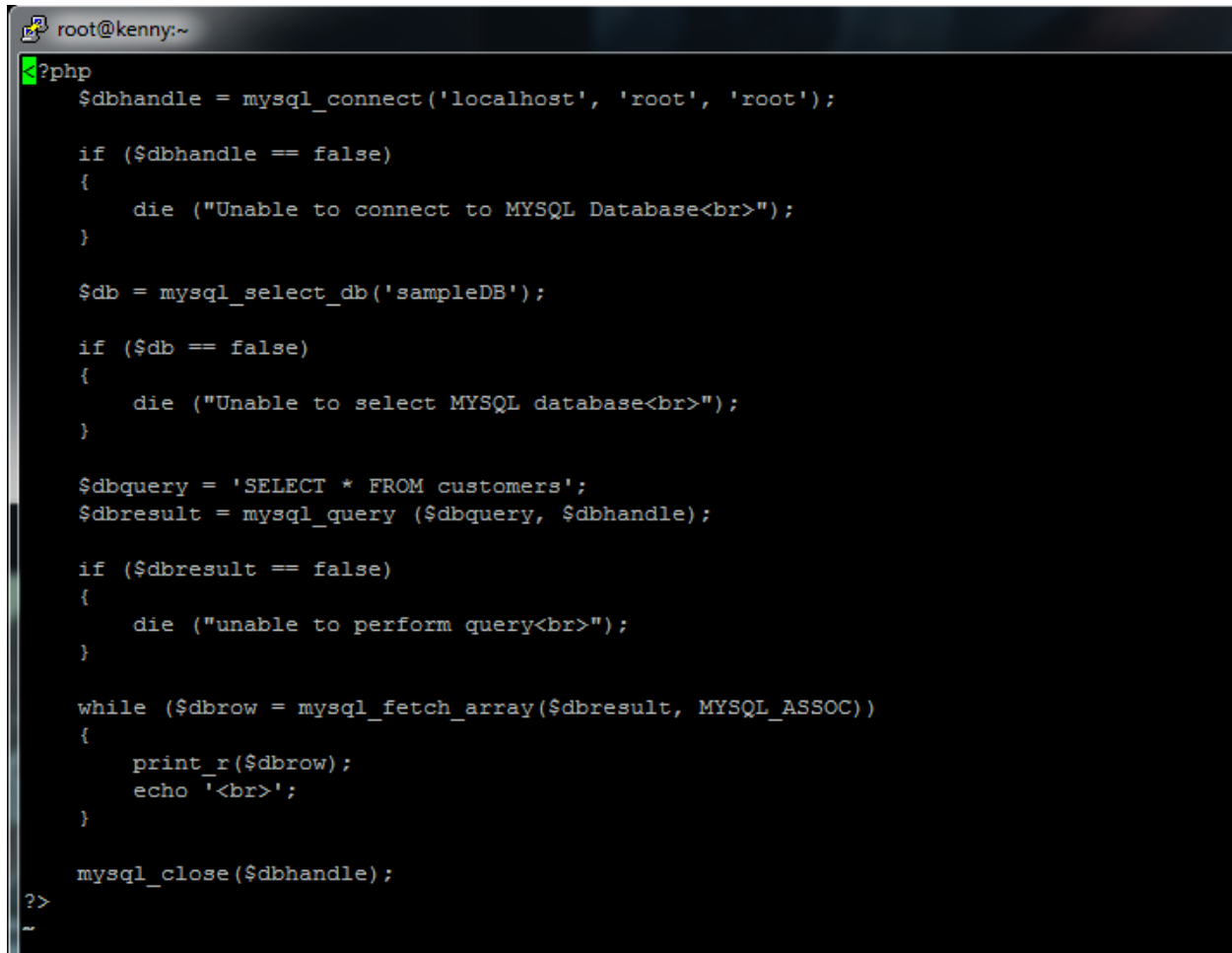
Below I used the command `CREATE TABLE customers` to create a table with the categories name, phone, and accountnum included.

I then insert data into the table with the command `INSERT INTO customers`.

Once I was done inserting data, I can view my table by using the command `SELECT * FROM customers`.

```
root@kenny:~  
login as: root  
root@137.140.143.202's password:  
Last login: Thu Jan  1 00:01:20 1970  
[root@kenny ~]# mysql -u root -p  
Enter password:  
Welcome to the MariaDB monitor.  Commands end with ; or \g.  
Your MariaDB connection id is 3  
Server version: 5.5.33a-MariaDB-log Source distribution  
  
Copyright (c) 2000, 2013, Oracle, Monty Program Ab and others.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
MariaDB [(none)]> CREATE DATABASE sampleDB;  
Query OK, 1 row affected (0.00 sec)  
  
MariaDB [(none)]> USE sampleDB;  
Database changed  
MariaDB [sampleDB]> CREATE TABLE customers (name VARCHAR(30), phone VARCHAR(30), accountnum VARCHAR(20));  
Query OK, 0 rows affected (2.73 sec)  
  
MariaDB [sampleDB]> INSERT INTO customers VALUES('Slim Jim', '2121234567', '11111111');  
Query OK, 1 row affected (0.89 sec)  
  
MariaDB [sampleDB]> INSERT INTO customers VALUES('Dirty Joe', '6461234567', '11111112');  
Query OK, 1 row affected (0.86 sec)  
  
MariaDB [sampleDB]> INSERT INTO customers VALUES('Smelly Tom', '7181234567', '11111113');  
Query OK, 1 row affected (0.02 sec)  
  
MariaDB [sampleDB]> SELECT * FROM customers  
-> ;  
+-----+-----+-----+  
| name      | phone      | accountnum |  
+-----+-----+-----+  
| Slim Jim   | 2121234567 | 11111111   |  
| Dirty Joe  | 6461234567 | 11111112   |  
| Smelly Tom | 7181234567 | 11111113   |  
+-----+-----+-----+  
3 rows in set (0.00 sec)  
  
MariaDB [sampleDB]> █
```

Once my sample database was created I can create a php file that will execute and display my table onto my website.

A screenshot of a terminal window with a dark background. The prompt is 'root@kenny:~'. The code is a PHP script that connects to a MySQL database on localhost with username 'root' and password 'root'. It selects a database named 'sampleDB' and runs a query to select all data from a table named 'customers'. The results are printed in a table format using 'print_r' and 'echo'. The script ends with 'mysql_close' and '??>'.

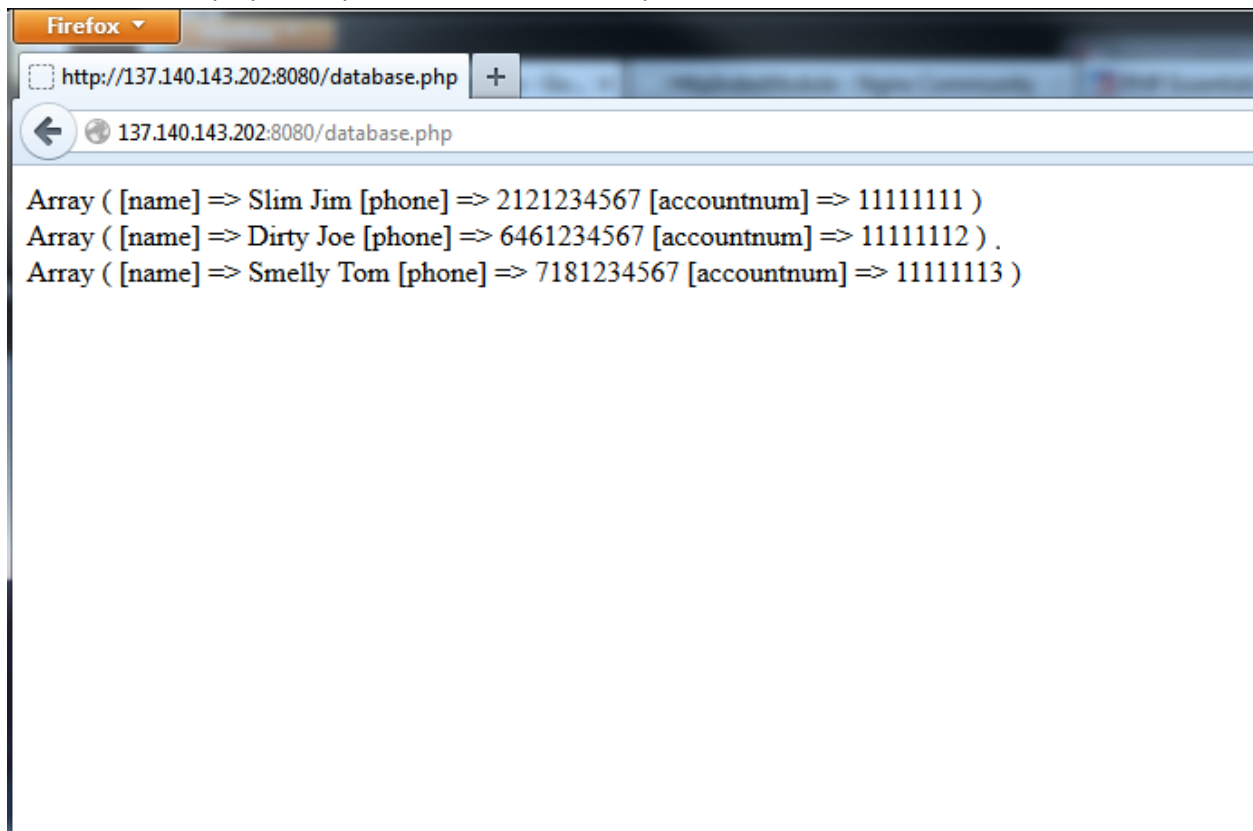
```
root@kenny:~  
?php  
$dbhandle = mysql_connect('localhost', 'root', 'root');  
  
if ($dbhandle == false)  
{  
    die ("Unable to connect to MYSQL Database<br>");  
}  
  
$db = mysql_select_db('sampleDB');  
  
if ($db == false)  
{  
    die ("Unable to select MYSQL database<br>");  
}  
  
$dbquery = 'SELECT * FROM customers';  
$dbresult = mysql_query ($dbquery, $dbhandle);  
  
if ($dbresult == false)  
{  
    die ("unable to perform query<br>");  
}  
  
while ($dbrow = mysql_fetch_array($dbresult, MYSQL_ASSOC))  
{  
    print_r($dbrow);  
    echo '<br>';  
}  
  
mysql_close($dbhandle);  
??>
```

From this php code, I have established a connection with the MySQL database connecting to 'localhost' and logging in with my username 'root' and password 'root'.

If it fails to connect, it will display a failed to connect error message.

I start to pull data from the MySQL database and print it out using a while loop.

Here is how it displays on my NGINX website when it prints.



To make it look nicer on my website, I will create a table with borders using html to code it and embedding a PHP script in order to pull data from MySQL.

```
root@kenny:/srv/http
<html>
  <head>
    <style>
      body{
        width: 45em;
        margin: 0 auto;
        font-family: georgia; font-size:14px;
      }
    </style>
    <title>Sample Database </title>
  </head>
  <center><h1>DATABASE OF RANDOM NAMES</h1></center>
  <center><table border = '3'></center>
  <body>
    <tr>
      <th>Name</th>
      <th>Phone Number</th>
      <th>Account Number</th>
    </tr>
    <?php
      $dbhandle = mysql_connect('localhost', 'root', 'root');

      if ($dbhandle == false)
      {
        die ("Unable to connect to MYSQL Database<br>");
      }

      $db = mysql_select_db('sampleDB');

      if ($db == false)
      {
        die ("Unable to select MYSQL database<br>");
      }

      $dbquery = 'SELECT * FROM customers';
      $dbresult = mysql_query ($dbquery, $dbhandle);

      if ($dbresult == false)
      {
        die ("unable to perform query<br>");
      }

      while ($dbrow = mysql_fetch_array($dbresult, MYSQL_ASSOC))
      {
        echo "<tr>";
        echo "<td>{$dbrow['name']}</td>";
        echo "<td>{$dbrow['phone']}</td>";
        echo "<td>{$dbrow['accountnum']}</td>";
        echo "</tr>";
      }

      mysql_close($dbhandle);
    ?>
  </body>
</html>
```

Here is how it displays on my website.

